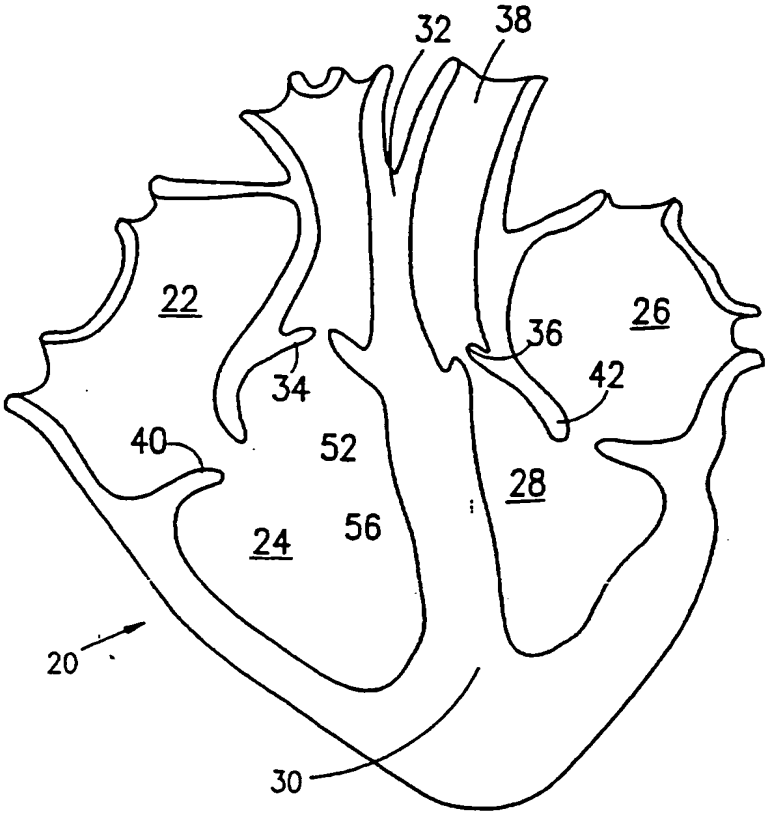


FIG. 1A

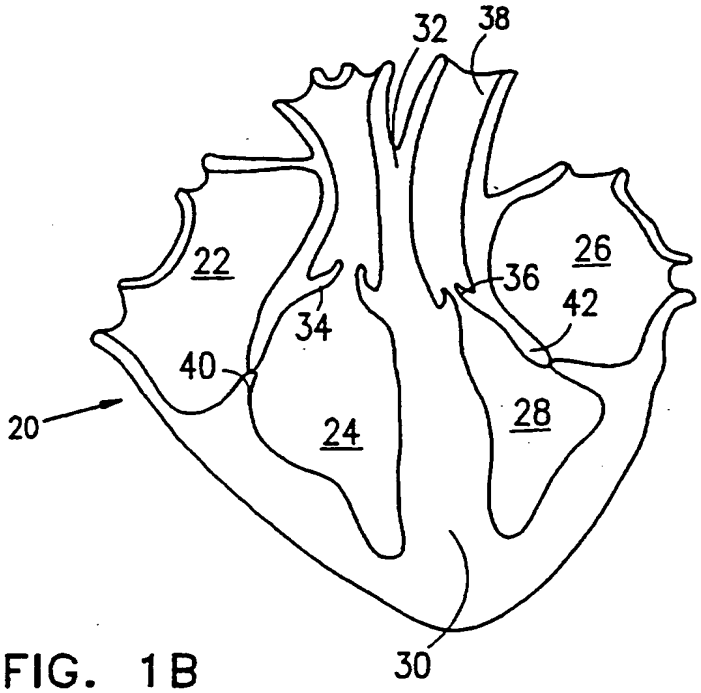


FIG. 1B

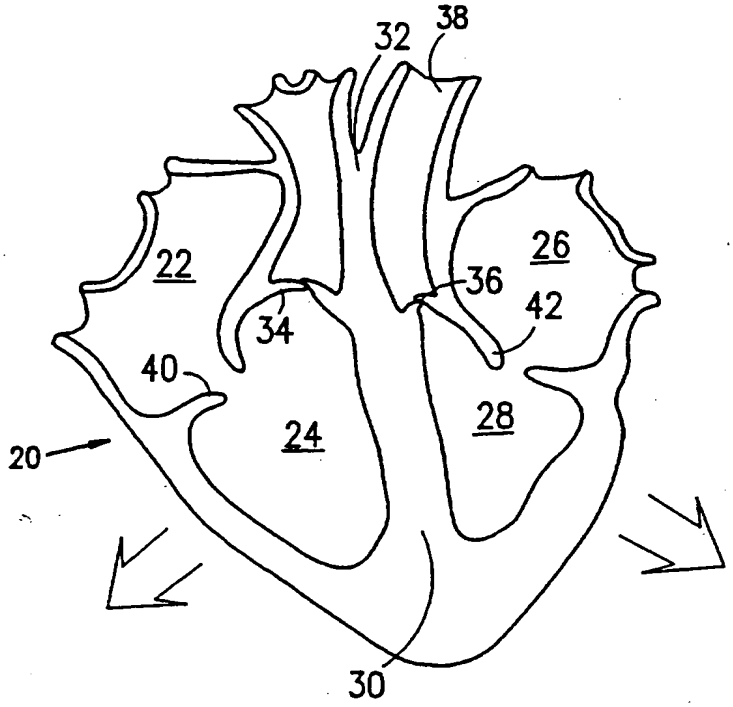


FIG. 1C

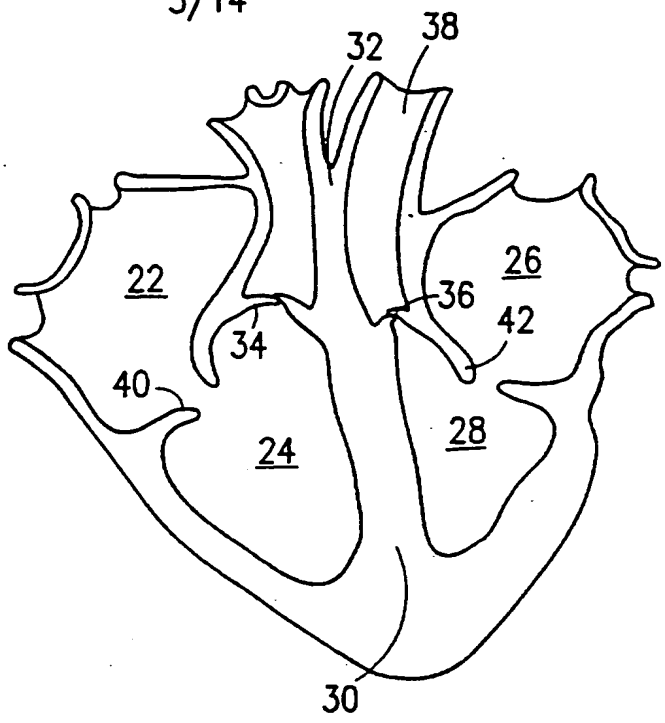


FIG. 1D

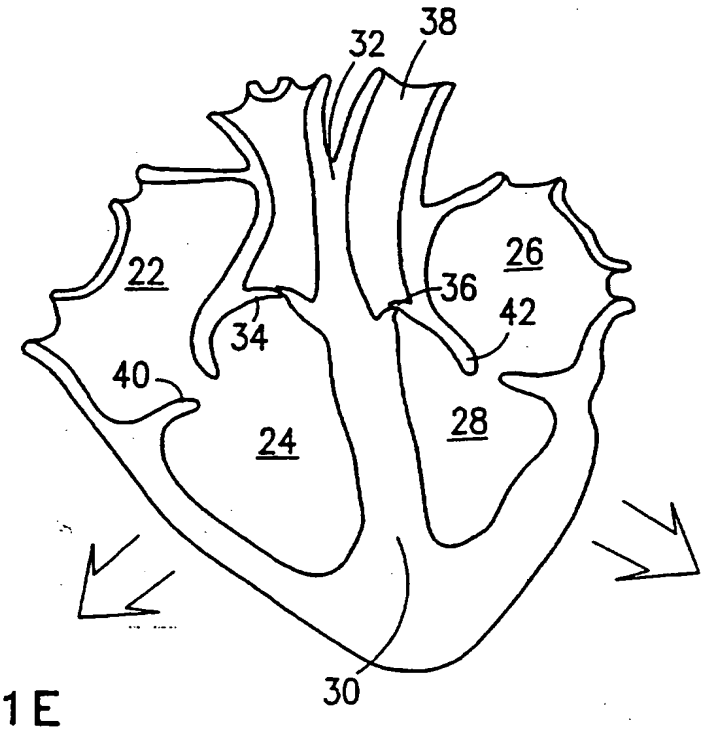


FIG. 1E

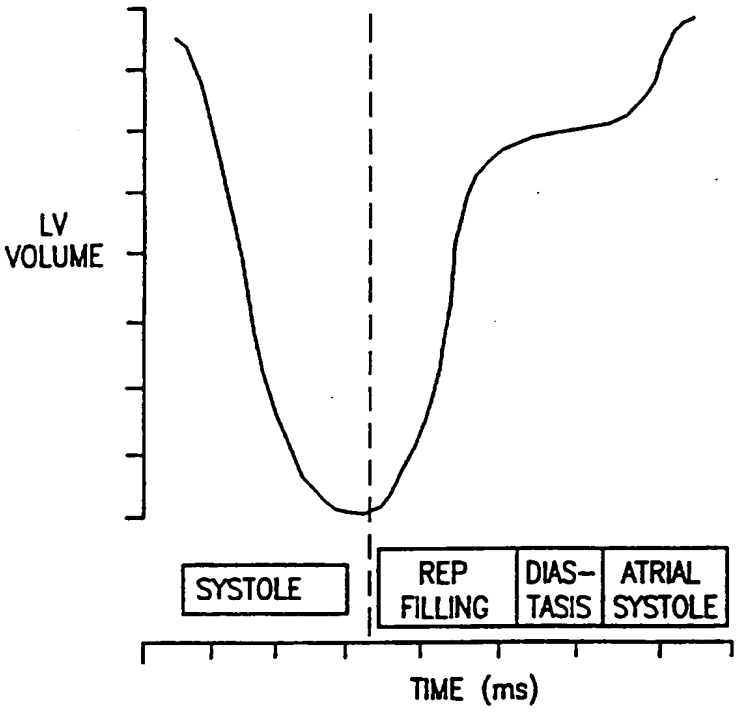

LV
VOLUME
SYSTOLE
REP
FILLING
DIAS-
TASIS
ATRIAL
SYSTOLE
TIME (ms)

FIG. 1F

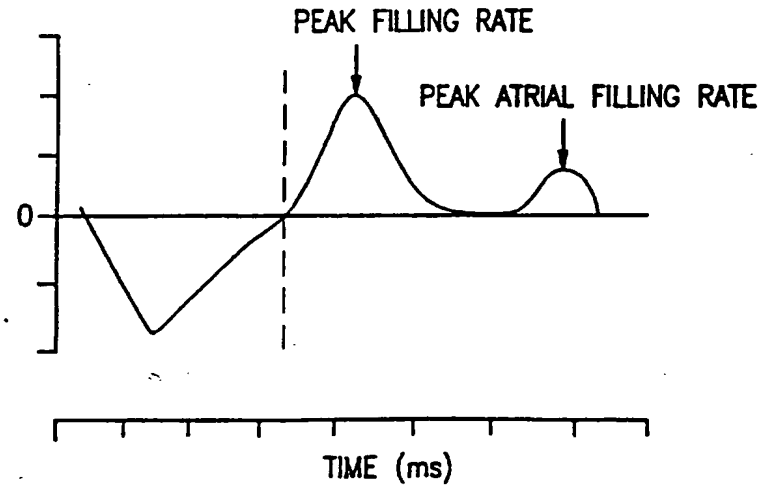

PEAK FILLING RATE
PEAK ATRIAL FILLING RATE
0
TIME (ms)

FIG. 1G

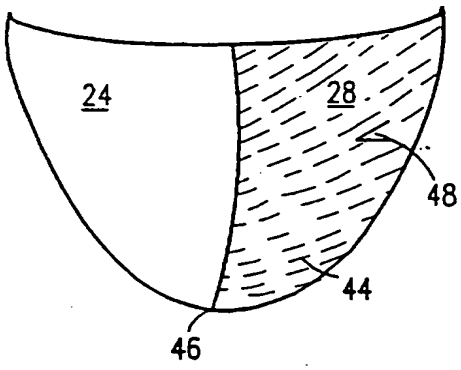


FIG. 2

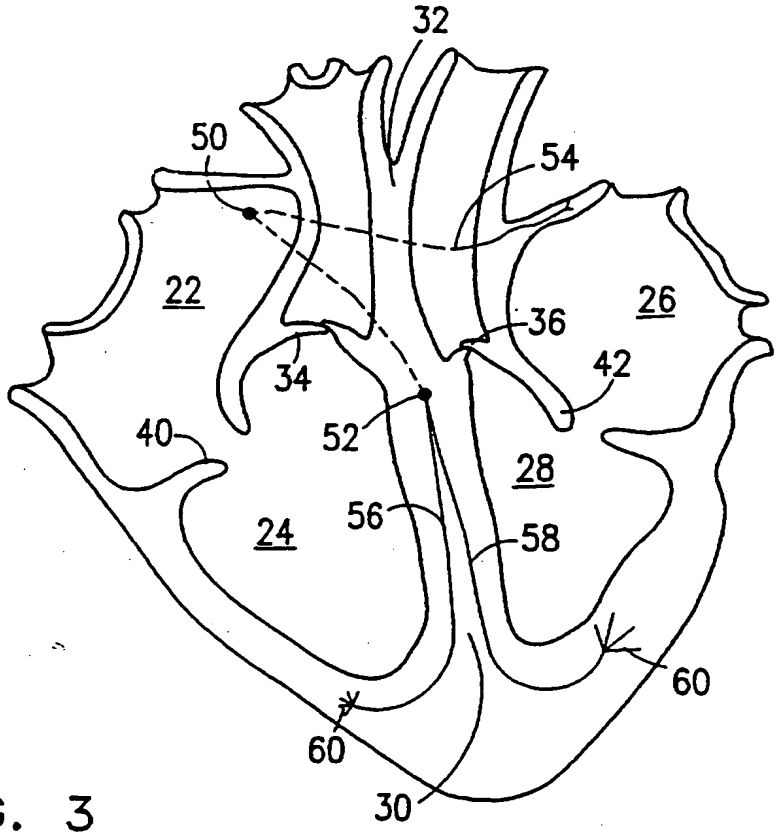


FIG. 3

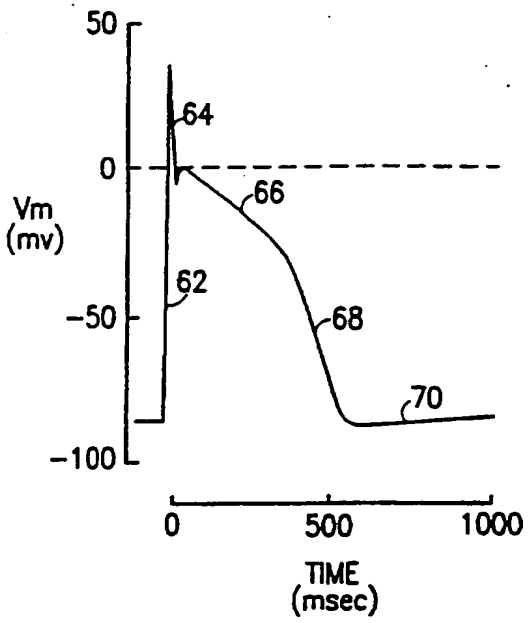
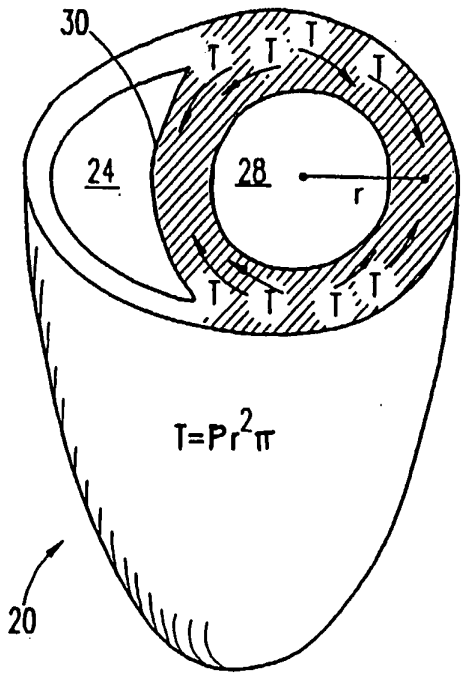


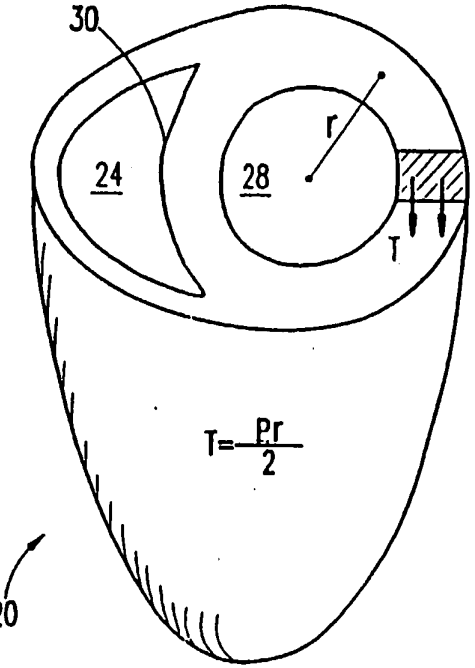
FIG. 4

FIG. 5A



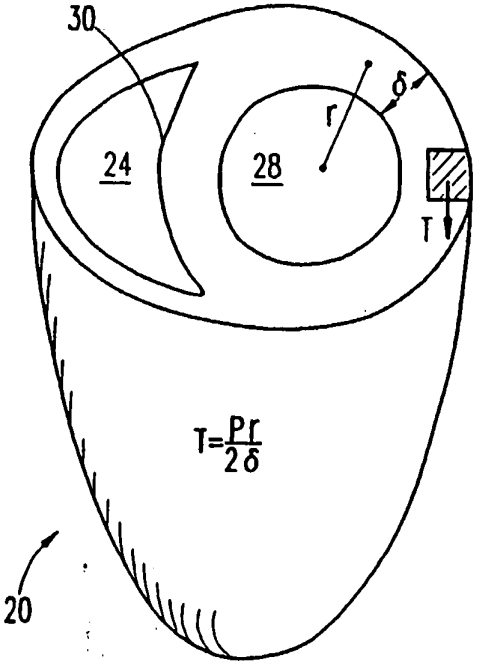
T=FORCE ACROSS THE TOTAL CROSS-SECTIONAL AREA OF MUSCLE

FIG. 5B



T=FORCE PER UNIT LENGTH OF CIRCUMFERENCE AND THE ENTIRE THICKNESS OF WALL

FIG. 5C



T=FORCE PER UNIT CROSS-SECTIONAL AREA OF MUSCLE

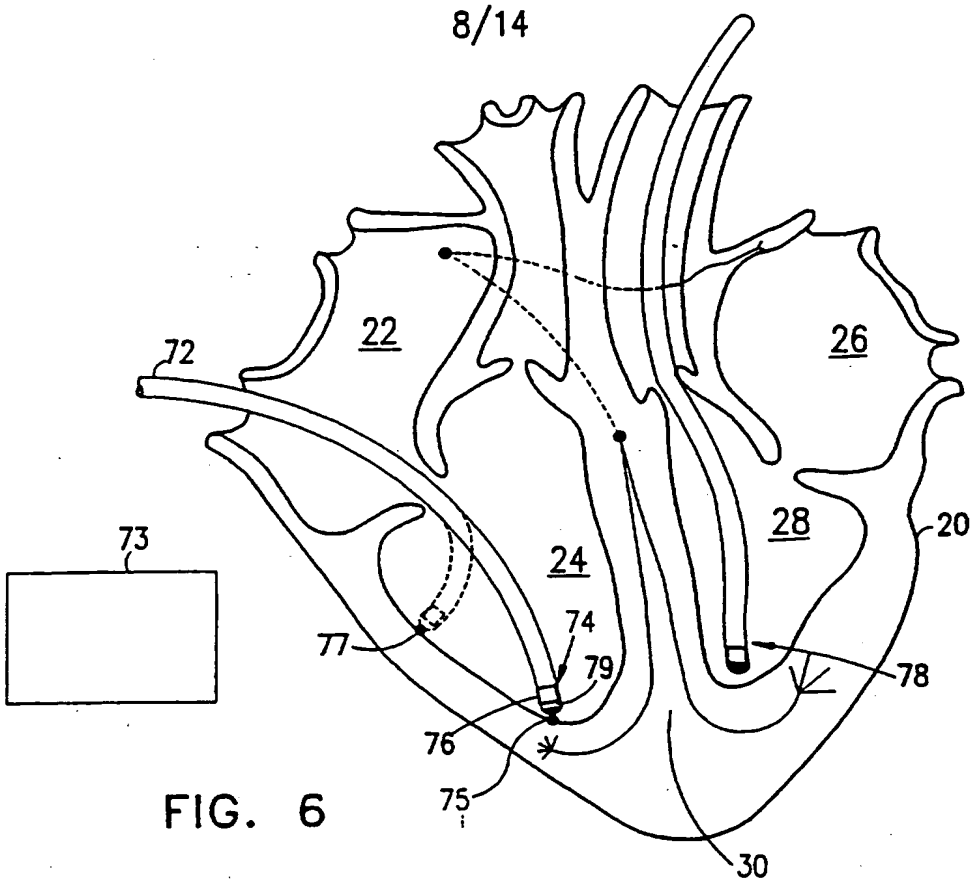

72
22
26
73
24
28
20
74
77
79
78
76
75
30

FIG. 6

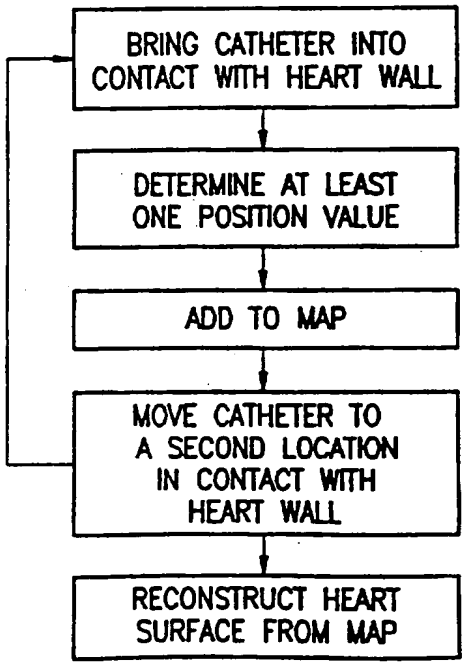

BRING CATHETER INTO CONTACT WITH HEART WALL
DETERMINE AT LEAST ONE POSITION VALUE
ADD TO MAP
MOVE CATHETER TO A SECOND LOCATION IN CONTACT WITH HEART WALL
RECONSTRUCT HEART SURFACE FROM MAP

FIG. 7

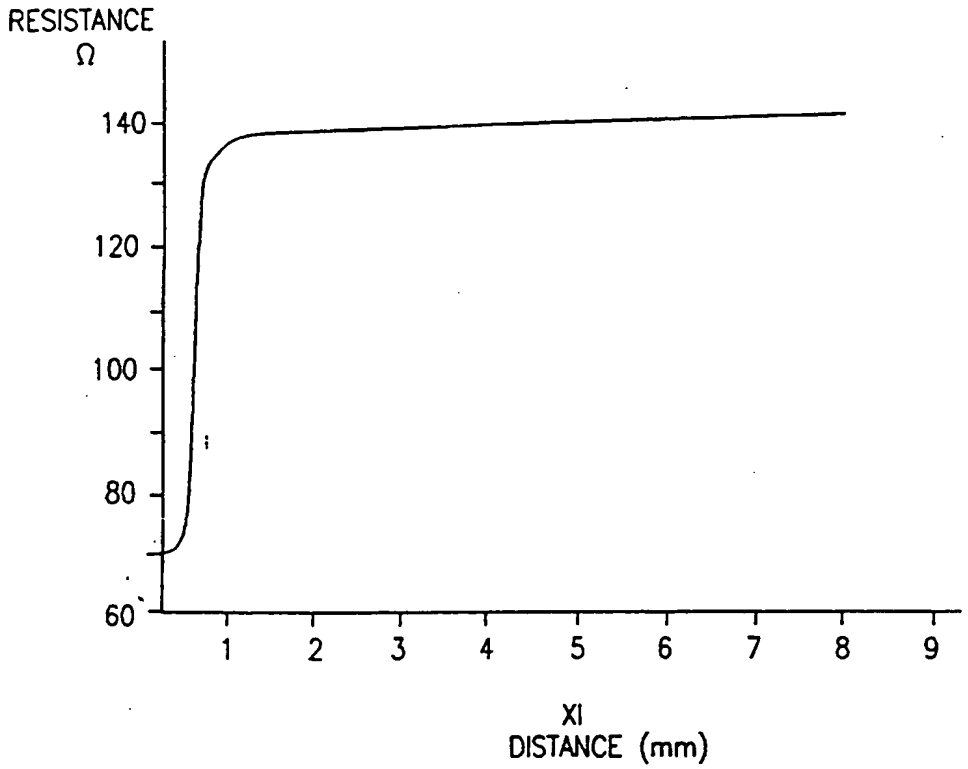


FIG. 8

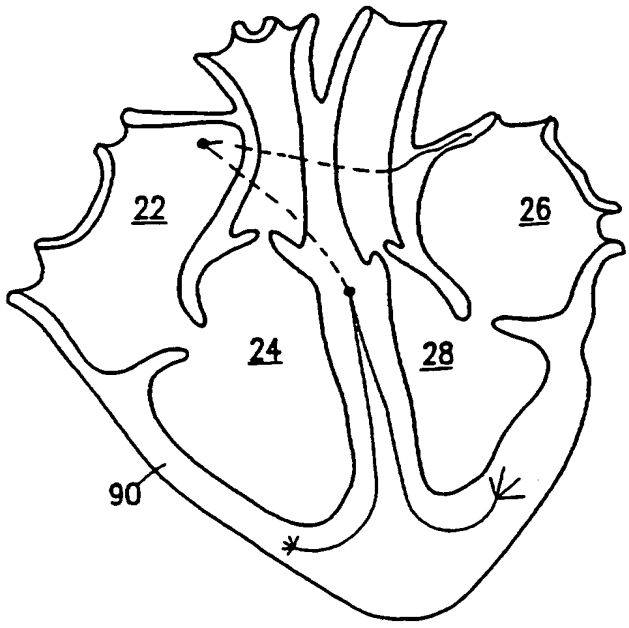


FIG. 9A

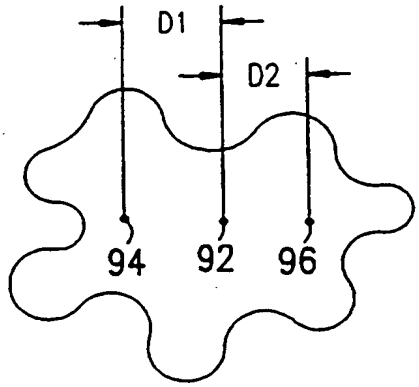


FIG. 9B

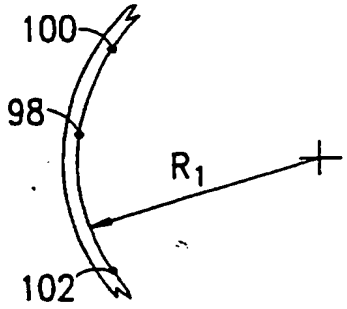


FIG. 9C

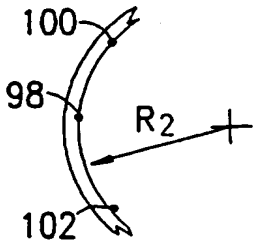
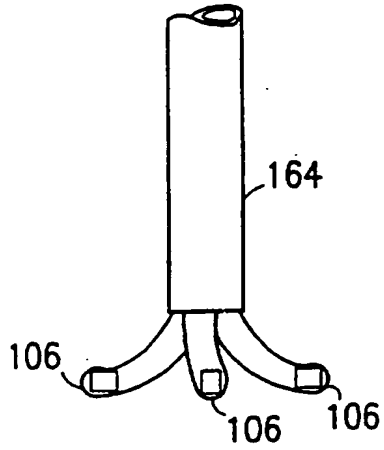


FIG. 9D

FIG. 10


164
106
106
106

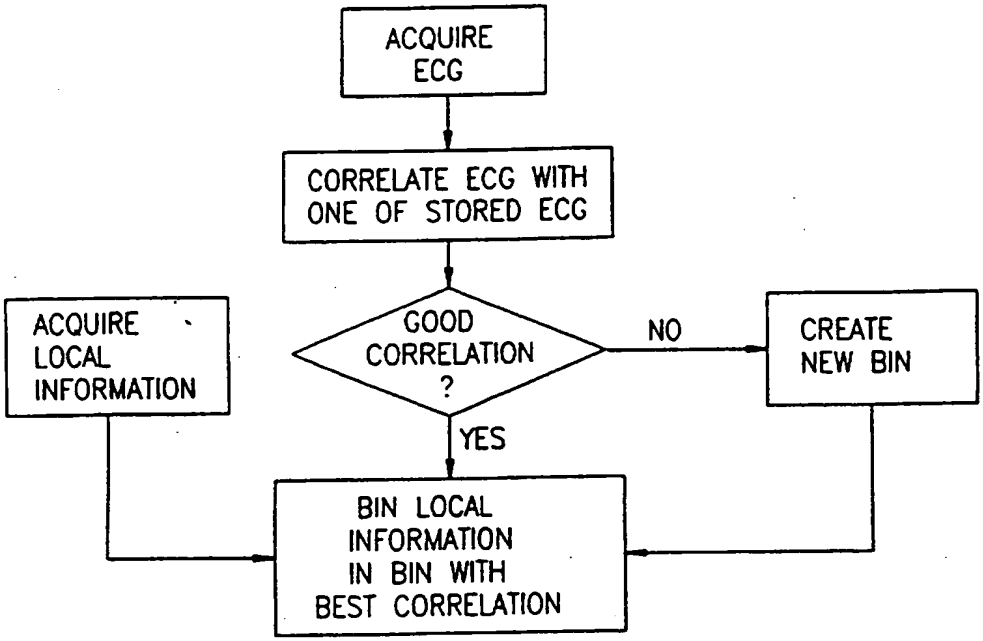

ACQUIRE ECG
CORRELATE ECG WITH ONE OF STORED ECG
GOOD CORRELATION ?
NO
CREATE NEW BIN
YES
ACQUIRE LOCAL INFORMATION
BIN LOCAL INFORMATION IN BIN WITH BEST CORRELATION

FIG. 11

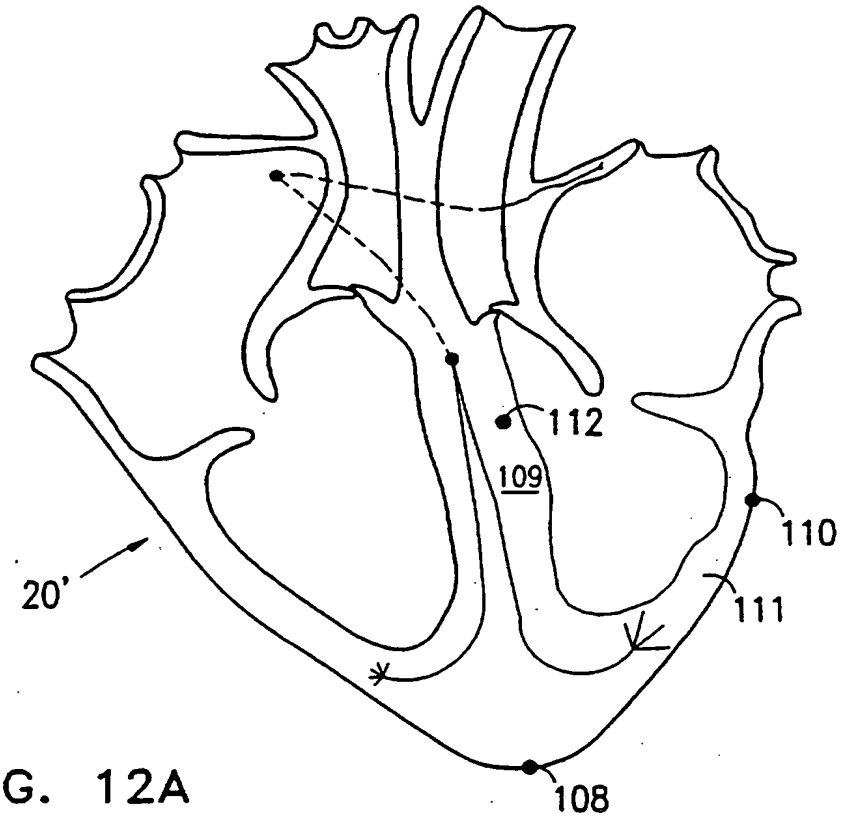


FIG. 12A

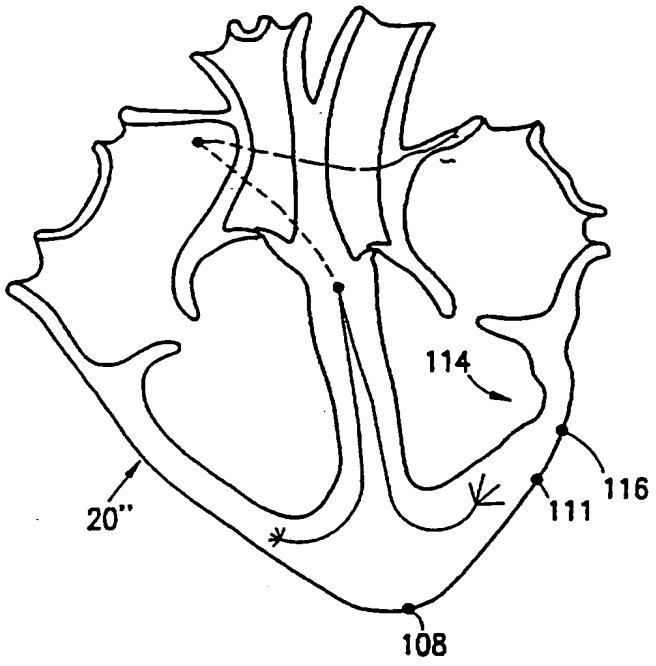


FIG. 12B

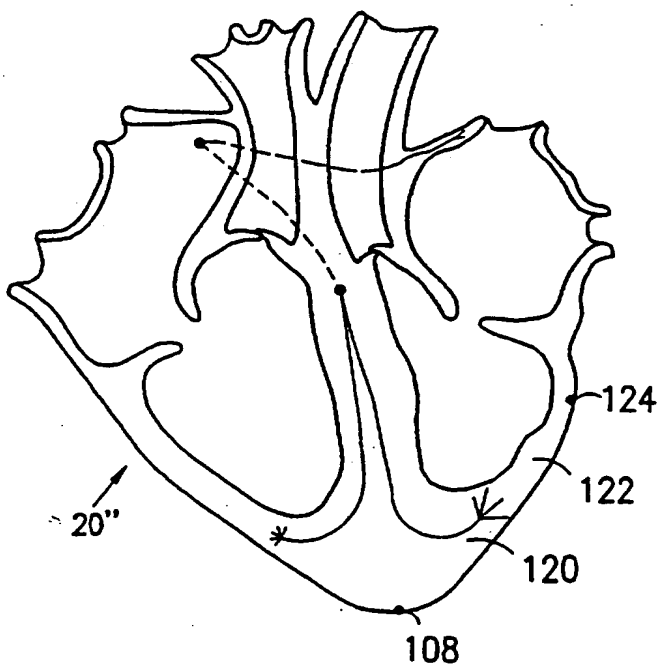


FIG. 12C

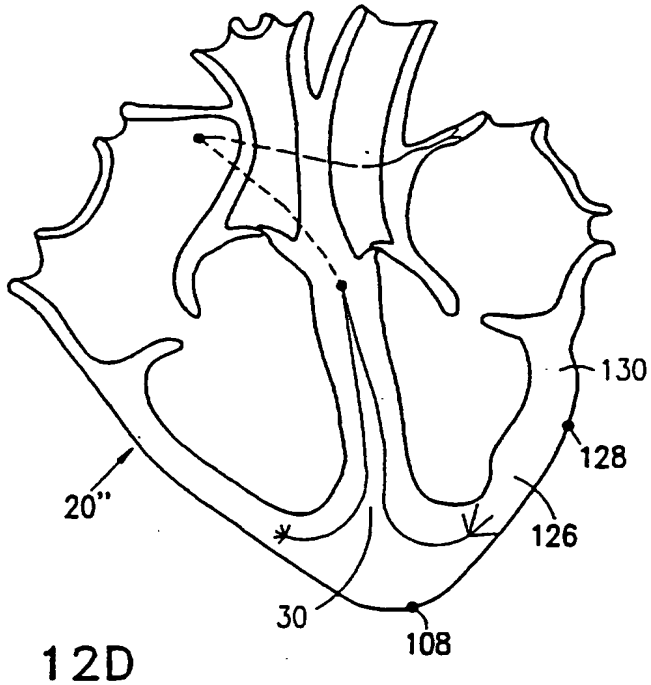


FIG. 12D

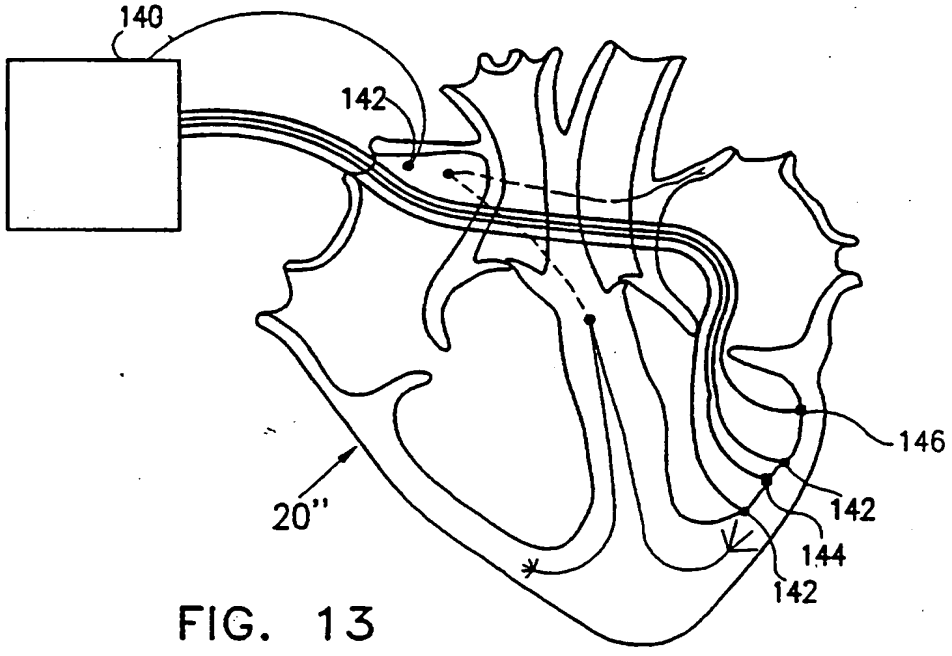


FIG. 13